WHAT IS CLAIMED IS:

1. A golf ball having numerous dimples, which include polygonal dimples provided on the surface thereof,

wherein when a phantom spherical face of the golf ball is comparted into multiple spherical regular polygons with comparting lines formed by casting a reflection of sides of a semiregular polyhedron inscribed in the phantom spherical face onto the phantom spherical face, the spherical regular polygons include the dimples arranged therein, and

proportion of the polygonal dimples occupied in total number of the dimples is equal to or greater than 50%.

2. The golf ball according to claim 1 wherein when multiple first spherical regular polygons and multiple second spherical regular polygons that have different number of vertices from that of said first spherical regular polygon are formed with said comparting lines,

all the first spherical regular polygons include the dimples arranged therein in a substantially equivalent manner with each other, and

all the second spherical regular polygons include the dimples arranged therein in a substantially equivalent manner with each other.

3. The golf ball according to claim 1 wherein said comparting line does not substantially intersect with any dimple.

4. The golf ball according to claim 2 wherein on said first spherical regular polygon, regular polygonal dimples having the same number of vertices as the number of vertices of said first spherical regular polygon are mainly arranged,

and

on the second spherical regular polygon, regular polygonal dimples having the same number of vertices as the number of vertices of this second spherical regular polygon are mainly arranged.

5. The golf ball according to claim 4 wherein the number of vertices of said first spherical regular polygon is 3, and the number of vertices of said second spherical regular polygon is 4.

6. The golf ball according to claim 5 wherein said semiregular polyhedron is the cuboctahedron.

7. The golf ball according to claim 5 wherein said semiregular polyhedron is the snub cube.

8. The golf ball according to claim 7 wherein said comparting line does not intersect with any dimple, and wherein no great circle path is present on the surface.

9. The golf ball according to claim 1 wherein proportion of total area of said dimples occupied in the area of said phantom spherical face is equal to or greater than 70%.